

Instruction Manual

CE

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MINI SOUND LEVEL METER

C O N T E N T S

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I. Safety Information

Read the following safety information carefully before attempting to operate or service the meter.

Use the meter only as specified in this manual; otherwise, the protection provided by the meter may be impaired.

➤ **Environment Conditions**

- ① Altitude up to 2000 meters
- ② Relative humidity 90% max.
- ③ Operation Ambient 0 to 40

- Display with 0.1dB steps on a 4-digit LCD.
- Two equivalent weighted sound pressure levels, A and C.
- AC signal output is available from standard 3.5mm coaxial socket suitable for a frequency analyzer, level recorder, FFT analyzer, graphic recorder , etc.

III. Specifications

Standard Applied: IEC651 Type2, ANSI S1.4 Type2.

Frequency Range: 31.5Hz to 8KHz

Measuring Level Range: 32dB to 130dB

Frequency Weighting: A / C

Microphone: 1/2 inch electret condenser microphone

Display: LCD

Digital Display: 4 digit

Resolution: 0.1dB

Display Update: 0.5 sec.

Time Weighting: FAST (125mS), SLOW (1 sec.)

Level Ranges: Lo: 32 dB to 80 dB

Med: 50 dB to 100 dB

Hi: 80 dB to 130 dB

Accuracy:

AC Output: 1 Vrms at FS (full scale).

Output impedance : Approx. 100 Ohms

FS: means the upper limit of each level range.

Electromagnetic Compatibility:

RF field = 3V/m

Total accuracy = specified accuracy + 0.5dB

Power Supply:

One 9V battery, 006P or IEC 6F22 or NEDA 1604.

Power Life: Approximately 70hours (Alkaline Battery)

Operation Temperature: 0 to 40

IV. Name And Functions

Output impedance: 100 ohms

Output signal by standard 3.5mm coaxial socket signal on pin.


- (1) Make the following switch settings.
Display : dBA
Time Weighting : FAST
Measurement Mode : MAX/MIN Mode function disable.
Level Range : 50 to 100dB
- (2) Insert the microphone housing carefully into the insertion hole of the calibrator.
- (3) Turn on the switch of calibrator and adjust the CAL potentiometer of the unit . The level display will indicate the desired level .
All our products are well calibrated before shipment.
Recommended Recalibration cycle : 1 year.

VI . Measurement Preparation

(1) Battery Loading

Remove the battery cover on the back and put in one 9V Battery.

(2) Battery Replacement

When the battery voltage drops below the operating voltage, this symbol will appear. 

Replace 9 Volt battery.

VII. Operating Precautions

- (1) Wind blowing across the microphone will bring additional extraneous noise.
When using the instrument in the presence of wind , it is a must to mount the windscreen to not pick up undesired signals.
- (2) Calibrate the instrument before operation if the instrument was not in use for a long time or operated in bad environment.

- (3) Do not store or operate the instrument at high temperature and high humidity environment.
- (4) Keep microphone dry and avoid severe vibration.
- (5) Please take out the battery and keep the instrument in low humidity environment when not in use.

VIII. Measurement

- (1) Open battery cover and install a 9V battery in the battery compartment.
- (2) Turn power ON and select the desired response time and weighting. If the sound source consists of short bursts or only catching sound peak, set response to FAST. To measure average sound level, use the SLOW setting.
Select A- weighting for general noise sound level and C-weighting for measuring sound level of acoustic material.
- (3) Select desired Level.
- (4) Hold the instrument comfortably in hand and point the microphone at the suspected noise source , the sound pressure level will be displayed.
- (5) When MAX/MIN (maximum, minimum hold) mode is chosen. The instrument captures and holds the maximum and minimum noise level for a long period using any of the time weightings and ranges.
Press the MAX/MIN button 2 seconds to clear the MAX/MIN reading . “ MAX/MIN ” symbol disappears.
- (6) Turn OFF the instrument.